

FIG. 1A

1	GGATAAGCCT	GGGGCCAGCA	TGAGCCAGAG	GGAGGGAAGT	CTGGAAGACC
	CCTATTCGGA	CCCCGGTCGT	ACTCGGTCTC	CCTCCCTTCA	GACTTTCTGG
1		M	S	Q	R
	E	G	S	L	E
	D	H			
51	ACCAGACTGA	CTCCTCAATC	TCATTCTTAC	CCCATTGGA	GGCCAAGATC
	TGGTCTGACT	GAGGAGTTAG	AGTAAGGATG	GGGTAAACCT	CCGGTTCTAG
12	Q	T	D	S	S
	I	S	F	L	P
	H	L	E	A	K
	I				
101	CGCCAGACAC	ACAACCTTGC	CCGCCTCCTG	ACCAAATATG	CAGAACAACCT
	GCGGTCTGTG	TGTTGGAACG	GGCGGAGGAC	TGGTTTATAC	GTCTTGTTGA
28	R	Q	T	H	N
	L	A	R	L	L
	T	K	Y	A	E
	Q	L			
151	TCTGGAGGAA	TACGTGCAGC	AACAGGGAGA	GCCCTTTGGG	CTGCCGGGCT
	AGACCTCCTT	ATGCACGTCG	TTGTCCCTCT	CGGGAAACCC	GACGGCCCGA
45	L	E	E	Y	V
	Q	Q	Q	G	E
	P	F	G	L	P
	G	F			
201	TCTCACCACC	GCGGCTGCCG	CTGGCCGGCC	TGAGTGGCCC	GGCTCCGAGC
	AGAGTGGTGG	CGCCGACGGC	GACCGGCCGG	ACTCACCGGG	CCGAGGCTCG
62	S	P	P	R	L
	P	L	A	G	L
	S	G	P	A	P
	S				
251	CATGCAGGGC	TACCGGTGTC	CGAGCGGCTG	CGGCAGGATG	CAGCCGCCCT
	GTACGTCCCG	ATGGCCACAG	GCTCGCCGAC	GCCGTCCTAC	GTCGGCGGGA
78	H	A	G	L	P
	V	S	E	R	L
	R	Q	D	A	A
	A	L			
301	GAGTGTGCTG	CCGCGCTGT	TGGATGCCGT	CCGCCGCCGC	CAGGCGGAGC
	CTCACACGAC	GGGCGCGACA	ACCTACGGCA	GGCGGCGGCG	GTCCGCCTCG
95	S	V	L	P	A
	L	L	D	A	V
	R	R	R	Q	A
	E	L			
351	TGAACCCGCG	CGCCCCGCGC	CTGCTGCGGA	GCCTGGAGGA	CGCAGCCCGC
	ACTTGGGCGC	GCGGGGCGCG	GACGACGCCT	CGGACCTCCT	GCGTCGGGCG
112	N	P	R	A	P
	R	L	L	R	S
	L	E	D	A	A
	R				
401	CAGGTTTCGGG	CCCTGGGCGC	CGCGGTGGAG	ACAGTGCTGG	CCGCGCTGGG
	GTCCAAGCCC	GGGACCCGCG	GCGCCACCTC	TGTCACGACC	GGCGCGACCC
128	Q	V	R	A	L
	G	A	A	V	E
	T	V	L	A	A
	L	G			
451	CGCTGCAGCC	CGCGGGCCCG	GGCCAGAGCC	CGTCACCGTC	GCCACCCTCT
	GCGACGTCGG	GCGCCCGGGC	CCGGTCTCGG	GCAGTGGCAG	CGGTGGGAGA
145	A	A	A	R	G
	P	G	P	E	P
	V	T	V	A	T
	L	F			
501	TCACGGCCAA	CAGCACTGCA	GGCATCTTCT	CAGCCAAGGT	GCTGGGGTTC
	AGTGCCGGTT	GTCGTGACGT	CCGTAGAAGA	GTCGGTTCCA	CGACCCCAAG
162	T	A	N	S	T
	A	G	I	F	S
	A	K	V	L	G
	F				
551	CACGTGTGCG	GCCTCTATGG	CGAGTGGGTG	AGCCGCACAG	AGGGCGACCT
	GTGCACACGC	CGGAGATACC	GCTCACCCAC	TCGGCGTGTC	TCCCGCTGGA
178	H	V	C	G	L
	Y	G	E	W	V
	S	R	T	E	G
	D	L			
601	GGGCCAGCTG	GTGCCAGGGG	GCGTCGCCTG	AGAGTGAATA	CTTTTTCTTG
	CCCGGTCGAC	CACGGTCCCC	CGCAGCGGAC	TCTCACTTAT	GAAAAAGAAC
195	G	Q	L	V	P
	G	V	A	O	

FIG. 1B

651	TAAGCTCGCT	CTGTCTCGCC	TCTTTGGCTT	CAAATTTTCT	GTCTCTCCAT
	ATTCGAGCGA	GACAGAGCGG	AGAAACCGAA	GTTTAAAAGA	CAGAGAGGTA
701	CTGTGTCCTG	TGTGTTCTTG	GGCTGTCCCT	ATCTTTCTGC	ATTTGTGTGG
	GACACAGGAC	ACACAAGAAC	CCGACAGGGA	TAGAAAGACG	TAAACACACC
751	TCTCTCTCTT	CTGCTCTCCT	CTCTGCAGGG	AGCTTCTTTT	TTCCAACAGT
	AGAGAGAGAA	GACGAGAGGA	GAGACGTCCC	TCGAAGAAAA	AAGGTTGTCA
801	TTCTCGTTTT	GTCTCTCTCC	AGTCTTGAAC	ACTTTTGTCT	CCGAGAGGTC
	AAGAGCAAAA	CAGAGAGAGG	TCAGAACTTG	TGAAAACAGA	GGCTCTCCAG
851	TCTTTTTGTT	TCCTTGTCTC	TTGGTTCTTT	CTTTGCTTGC	TTGCTTGCTT
	AGAAAAACAA	AGGAACAGAG	AACCAAGAAA	GAAACGAACG	AACGAACGAA
901	GCTTGCTTGT	TGTTGAGACA	GGGTCTCACC	ATATAGCTCT	GGATGGCCTG
	CGAACGAACA	ACAACTCTGT	CCCAGAGTGG	TATATCGAGA	CCTACCGGAC
951	GAACCTTGCTA	TGTAGGCCAG	GCTGGCCTCC	AGCTCATAGA	GATCCACTTG
	CTTGAACGAT	ACATCCGGTC	CGACCGGAGG	TCGAGTATCT	CTAGGTGAAC
1001	CCTCCGACTC	CCAATTTCCC	CATCTGTCTC	CCTGTGATCC	ATATGGGTAT
	GGAGGCTGAG	GGTTAAAGGG	GTAGACAGAG	GGACACTAGG	TATACCCATA
1051	GTGTAACCCT	TACTTTGTCT	CATGGAGGTG	ACAATTTTTC	TCCCTTCAGT
	CACATTGGGA	ATGAAACAGA	GTACCTCCAC	TGTTAAAAAG	AGGGAAGTCA
1101	TTCTTTGTTC	TTTACTGACC	AGAAAAGTGC	CTACTTGTCC	CCTGGTGGCA
	AAGAAACAAG	AAATGACTGG	TCTTTTCACG	GATGAACAGG	GGACCACCGT
1151	AGGCCATTCA	CCTTAGGACC	TTCCCACCAG	TTCTTTTGTA	GGCAAATCCC
	TCCGGTAAGT	GGAATCCTGG	AAGGGTGGTC	AAGGAAACAT	CCGTTTAGGG
1201	TCCCCCTTTG	AGGTCCTTCC	CTTTCATACC	GCCCTAGGCT	GGTCAATGGA
	AGGGGGAAAC	TCCAGGAAGG	GAAAGTATGG	CGGGATCCGA	CCAGTTACCT
1251	GAGAGAAAGG	CAGAAAAACA	TCTTTAAAGA	GTTTTATTTG	AGAATAAATT
	CTCTCTTTCC	GTCTTTTTGT	AGAAATTTCT	CAAATAAAC	TCTTATTTAA
1301	AATTTTTGTA	AATAAAATGT	TTAACAATAA	AACTAAACTT	TTATGAAAAA
	TTAAAAACAT	TTATTTTACA	AATTGTTATT	TTGATTTGAA	AATACTTTTT
1351	AA (polyA)				
	TT				

FIG. 2

	10	20	30	40	50
chf.781	MSQREGSLEDHQTDSSISFLPHLEAKIRQTHNLARLLTKYAEQLLEEVQ				
		**	***	* * *	
humcntf	MAFTEHSPLTPHRRDLCSRSIWLARKIRSDLTALTESYVK				
		10	20	30	40

	60	70	80	90	100
chf.781	QQGEPFGLPGFSPPRPLAGLSGPAPSHAGLPVSERLRQDAAALSVLPAL				
	**	*	* *	***	* *
humcntf	HQGLNKNINLDSADGMPVA---STDQWSELTEAERLQENLQAYRTFHV				
	50	60	70	80	

	110	120	130	140
chf.781	LD-AVRRRQAE LNPRAPRLRSLEDAARQVRALGAAVETVLAALGAAARG			
	*	*	*	** * *
humcntf	LARLLEDQQVHFPTTEGDFHQAIHTLLLQVAAFAYQIEELMILLEYKIPR			
	90	100	110	120

	150	160	170	180	190
chf.781	PGPEPVTVATLFTANSTAGIFSAKVLGFHVCGLYGEWVSRTGDLGQLVP				
		* * *	* * *	* * *	
humcntf	NEADGMPINV-----GDGGLFEKKLWGLKVLQELSQWTVRSIHDL-RFIS				
	140	150	160	170	180

	200
chf.781	GGVAO
humcntf	SHQTGIPARGSHYIANNKKM
	190 200

FIG. 3

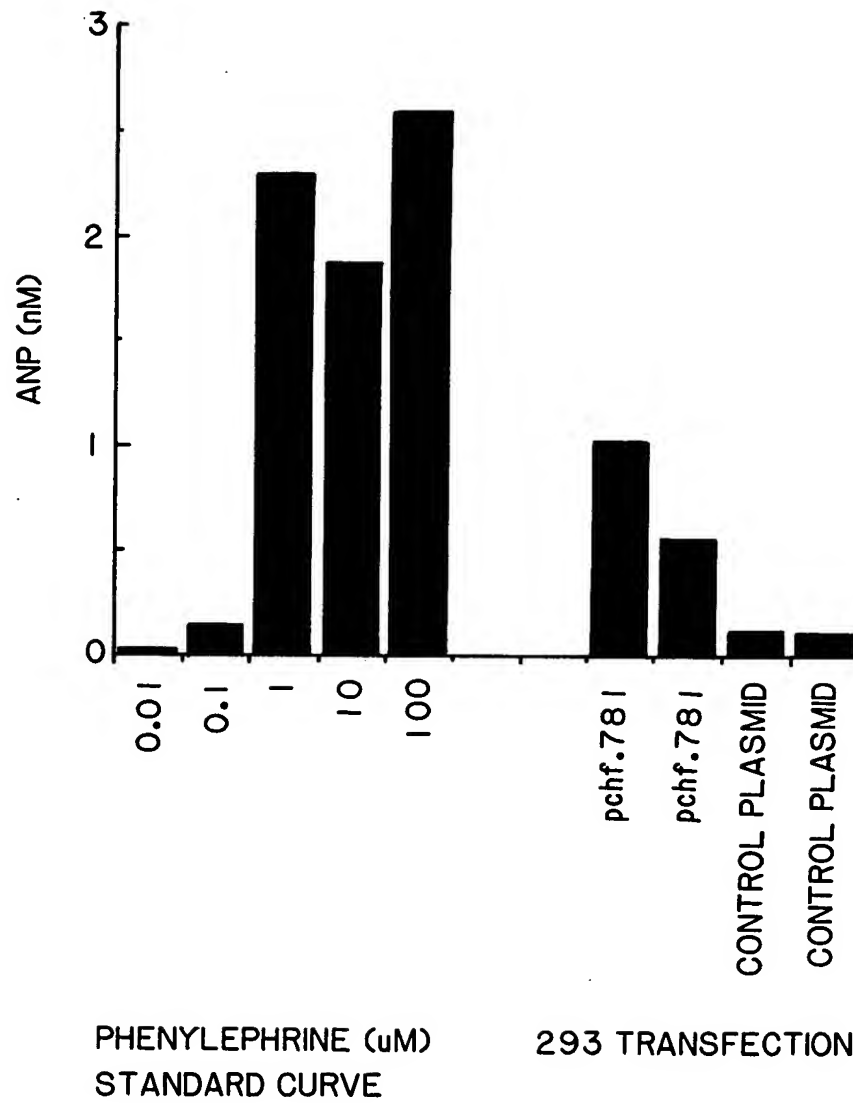


FIG. 4

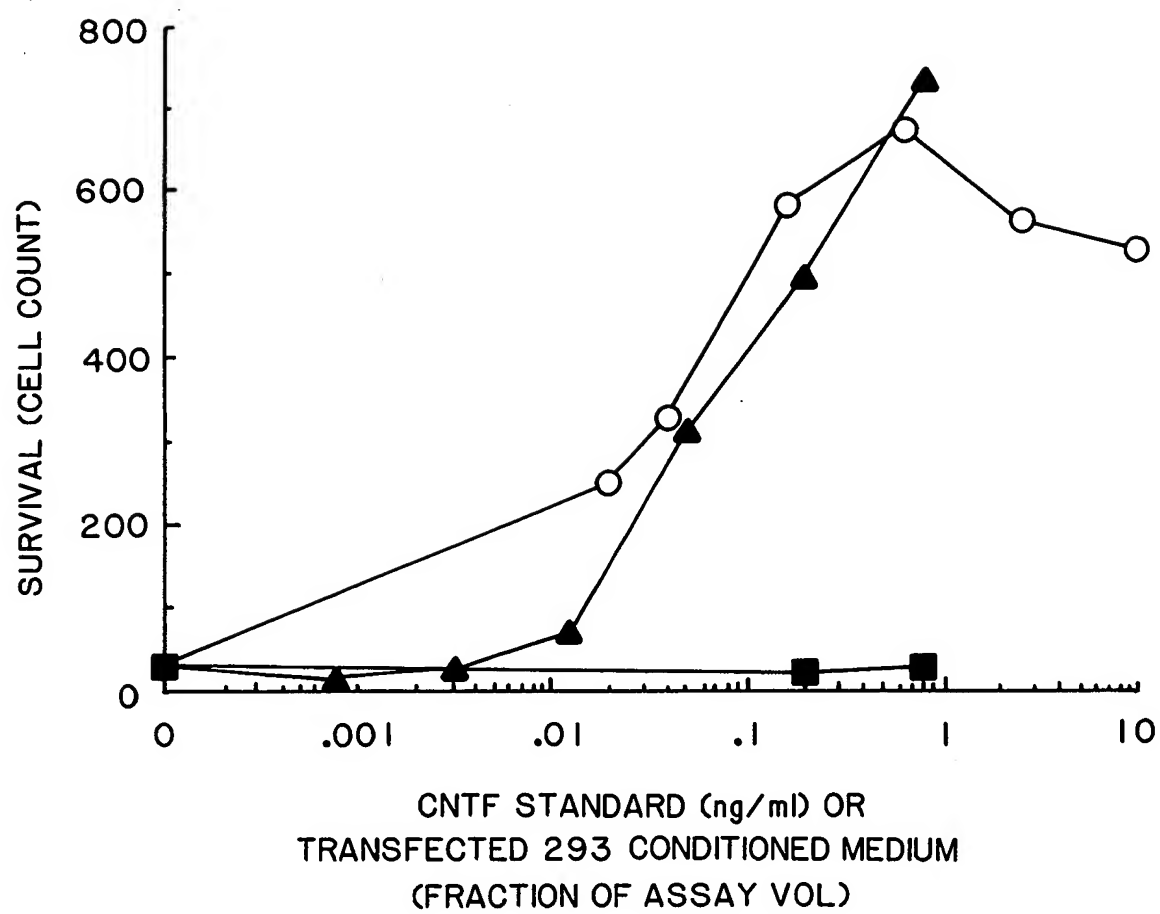


FIG. 5A

1	GTGAAGGGAG	CCGGGATCAG	CCAGGGGCCA	GCATGAGCCG	GAGGGAGGGA
1	CACTTCCCTC	GGCCCTAGTC	GGTCCCCGGT	CGTACTCGGC	CTCCCTCCCT
				M S R	R E G
51	AGTCTGGAAG	ACCCCCAGAC	TGATTCCTCA	GTCTCACTTC	TTCCCCACTT
	TCAGACCTTC	TGGGGGTCTG	ACTAAGGAGT	CAGAGTGAAG	AAGGGGTGAA
7	S L E D	P Q T	D S S	V S L L	P H L
101	GGAGGCCAAG	ATCCGTCAGA	CACACAGCCT	TGCGCACCTC	CTCACCAAAT
	CCTCCGGTTC	TAGGCAGTCT	GTGTGTCGGA	ACGCGTGGAG	GAGTGGTTTA
24	E A K	I R Q T	H S L	A H L	L T K Y
151	ACGCTGAGCA	GCTGCTCCAG	GAATATGTGC	AGCTCCAGGG	AGACCCCTTC
	TGCGACTCGT	CGACGAGGTC	CTTATACACG	TCGAGGTCCC	TCTGGGGAAG
41	A E Q	L L Q	E Y V Q	L Q G	D P F
201	GGGCTGCCCA	GCTTCTCGCC	GCCGCGGCTG	CCGGTGGCCG	GCCTGAGCGC
	CCCGACGGGT	CGAAGAGCGG	CGGCGCCGAC	GGCCACCGGC	CGGACTCGCG
57	G L P S	F S P	P R L	P V A G	L S A
251	CCCGGCTCCG	AGCCACGCGG	GGCTGCCAGT	GCACGAGCGG	CTGCGGCTGG
	GGGCCGAGGC	TCGGTGCGCC	CCGACGGTCA	CGTGCTCGCC	GACGCCGACC
74	P A P	S H A G	L P V	H E R	L R L D
301	ACGCGGCGGC	GCTGGCCGCG	CTGCCCCCGC	TGCTGGACGC	AGTGTGTCGC
	TGCGCCGCCG	CGACCGGCGC	GACGGGGGCG	ACGACCTGCG	TCACACAGCG
91	A A A	L A A	L P P L	L D A	V C R
351	CGCCAGGCCG	AGCTGAACCC	GCGCGCGCCG	CGCCTGCTGC	GCCGCCTGGA
	GCGGTCCGGC	TCGACTTGGG	CGCGCGCGGC	GCGGACGACG	CGGCGGACCT
107	R Q A E	L N P	R A P	R L L R	R L E
401	GGACGCGGCG	CGCCAGGCCC	GGGCCCTGGG	CGCCGCCGTG	GAGGCCTTGC
	CCTGCGCCGC	GCGGTCCGGG	CCCGGGACCC	GCGGCGGCAC	CTCCGGAACG
124	D A A	R Q A R	A L G	A A V	E A L L
451	TGGCCGCGCT	GGGCGCCGCC	AACCGCGGGC	CCCGGGCCGA	GCCCCCGGCC
	ACCGGCGCGA	CCCGCGGCGG	TTGGCGCCCC	GGGCCC GGCT	CGGGGGGCGG
141	A A L	G A A	N R G P	R A E	P P A

FIG. 5B

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501  GCCACCGCCT CAGCCGCCTC CGCCACCGGG GTCTTCCCCG CCAAGGTGCT
    CCGTGGCGGA GTCGGCGGAG GCGGTGGCCC CAGAAGGGGC GGTTCACGA
157  A  T  A  S    A  A  S    A  T  G    V  F  P  A    K  V  L

551  GGGGCTCCGC GTTTGCGGCC TCTACCGCGA GTGGCTGAGC CGCACCGAGG
    CCCCAGAGCG CAAACGCCGG AGATGGCGCT CACCGACTCG GCGTGGCTCC
174  G  L  R    V  C  G  L    Y  R  E    W  L  S    R  T  E  G

601  GCGACCTGGG CCAGCTGCTG CCCGGGGGCT CGGCCTGAGC GCCGCGGGGC
    CGCTGGACCC GGTCGACGAC GGGCCCCCGA GCCGGA CTG CGGCGCCCCG
191  D  L  G    Q  L  L    P  G  G  S    A  O

651  AGCTCGCCCC GCCTCCTCCC GCTGGGTTCC GTCTCTCCTT CCGCTTCTTT
    TCGAGCGGGG CGGAGGAGGG CGACCCAAGG CAGAGAGGAA GGC GAAGAAA

701  GTCTTTCTCT GCCGCTGTCT GTGTCTGTCT GTCTGCTCTT AGCTGTCTCC
    CAGAAAGAGA CGGCGACAGC CACAGACAGA CAGACGAGAA TCGACAGAGG

751  ATTGCTCTCG CCTTCTTTGC TTTTGTGTTG GGAGAGGGGA GGGGACGGGC
    TAACGGAGCC GGAAGAAACG AAAAACACCC CCTCTCCCCT CCCCTGCCCCG

801  AGGGTCTCTG TCGCCAGGC TGGGGTGCAG TGGCGCGATC CCAGCACTGC
    TCCCAGAGAC AGCGGGTCCG ACCCCACGTC ACCGCGCTAG GGTCTGTGACG

851  AGCCTCAACC TCCTGGGCTC AAGCCATCCT TCCGCCTCAG CTTCCCCAGC
    TCGGAGTTGG AGGACCCGAG TTCGGTAGGA AGGCGGAGTC GAAGGGGTCTG

901  AGCTGGGACT ACAGGCACGC GCCACCACAG CCGGCTAATT TTTTATTTAA
    TCGACCCTGA TGTCCGTGCG CCGTGGTGTC GGCCGATTAA AAAATAAATT

951  TTTTTTGTAG AGACGAGGTT TCGCCATGTT GCCCAGGCTG GTCTTGA ACT
    AAAAAACATC TCTGCTCCAA AGCGGTACAA CGGGTCCGAC CAGAACTTGA

1001 CCGGGGCTCA AGCGATCC
    GGCCCCGAGT TCGCTAGG

```

FIG. 6

humct1	1	MSRREGSLEDPQTDSSVSLPHLEAKIRQTHSLAHLTKYAEQLLQEYVQLQG
		** ***** * ***** **
chf.781	1	MSQREGSLEDHQTDSSISFLPHLEAKIRQTHNLARLLTKYAEQLLEEYVQQQG
humct1	54	DPFGLPSFSPRLPVAGLSAPAPSHAGLPVHERLRDAAALAALPPLDAVCR
		***** ***** ***** ***** ** ***** *
chf.781	54	EPFGLPGFSPRLPLAGLSGPAPSHAGLPVSERLRQDAAALSVLPALLDAVRR
humct1	107	RQAEKNPRAPRLRRLEDAARQARALGAAVEALLAALGAANRGPRAEPPAATA
		***** ***** ***** ***** ***** ** *
chf.781	107	RQAEKNPRAPRLRSLEDAARQVRALGAAVETVLAALGAAARGPGPEPVTAT
humct1	160	--SAASATGVFPAKVLGLRVCGLYREWLSRTEGDLGQLLPGGSA
		* * * * * ***** ***** **
chf.781	160	LFTANSTAGIFSAKVLGFHVCGLYGEWVSRTGDLGQLVPGGVA